



Soil stockpile south of Bldg 4 27X

Supersacks in Sodium Reduction Bldg  
And elevated readings adjacent 17X

Pond 6 levee  
25X

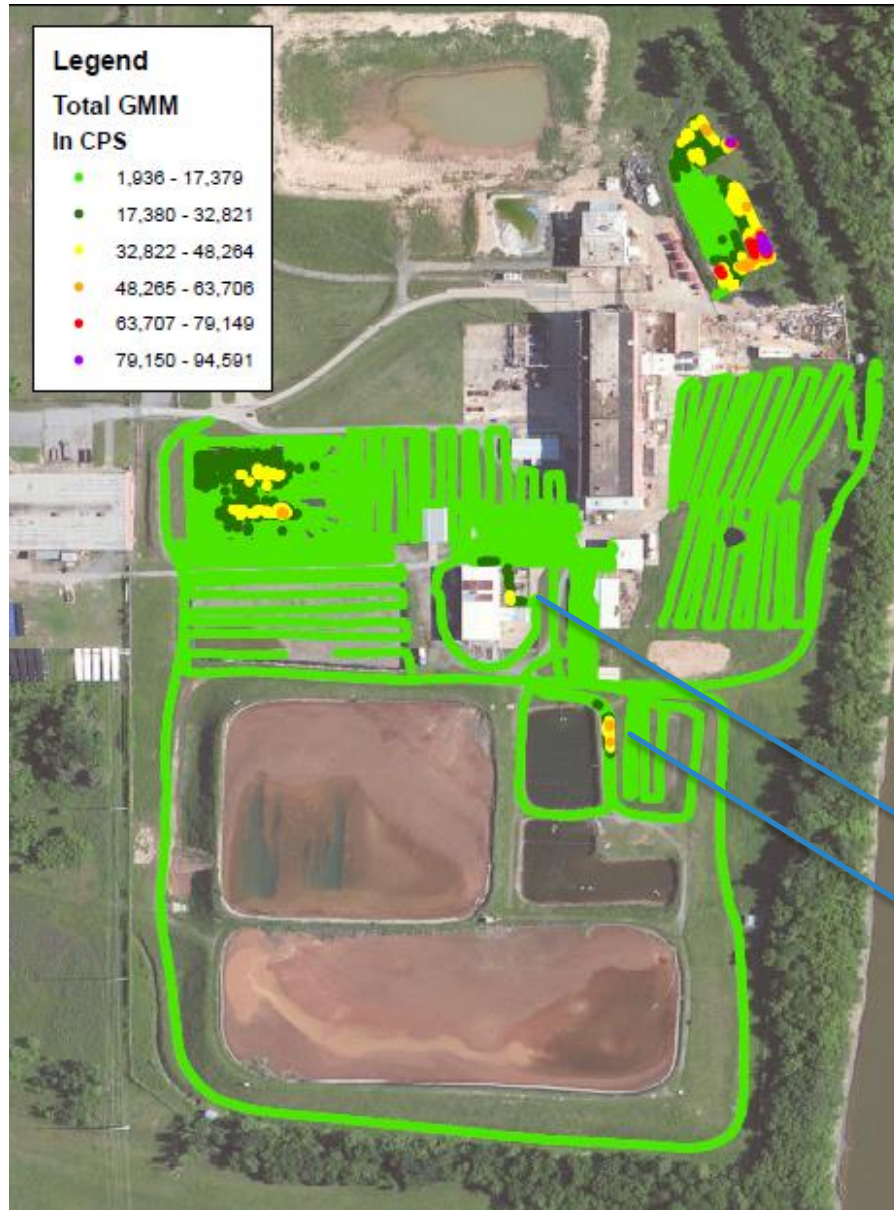
Sump Pump

Interceptor Trench

Previous  
removals  
Ammonium  
Hydroxide tank,  
Laboratory  
chemicals

Open Pit 2,  
trench 45X

# Create a Sampling Plan



Our scans are qualitative:

❖ What do the colors signify?

Sampling will tell us the concentration of the radioactive isotopes. We can then link our previous scans with quantitative data.

❖ What is the depth of contamination?

Need two areas where contamination was not deliberately placed by Fansteel.

Outside Sodium Reduction Building (17 X background)

Levee of Pond 6 (25X background)



## Former Pond 2, trench (45X background)

Former Pond 2 fill consists of 10-12' of rad waste from this and other process ponds on a native clay liner. FMRI attempted to dig up the waste and send it off for recovery of metals. It is mostly the spent U ore. The cap has been partially removed and the radiation exposure is higher there than any other outdoor place on the site.



Supersacks in Storage Sodium Reduction Building  
(gamma not measured)

The second hottest area on the site. Estimated 1000 sacks piled 10 levels high. Sacks contain soil removed by Fansteel from former Pond 1 (now closed and qualitatively clean based on EPA radiation survey)



Soil stock pile south of bldg 4 (27X background)

Radioactive waste removed from old french drain system and stockpiled on a hdpe liner and covered with hdpe liner. Top liner is damaged, ripped and only partially covered with soil as shielding.



Pond 3 – Accounts for ~50% of WWTP input (~15,000 gpd).

Interceptor trench and sumps (~14,000 gpd)

## Wastewater Treatment

Groundwater collected in interceptor trench for treatment is combined with surface water from Pond 3 and Pond 3 french drain. Prevents contaminated groundwater from reaching Arkansas River. ESI showed significant contamination with radioactive isotopes.